Matter with Cloud

Why it matters that MATTER meets the Cloud. You might have heard about Matter https://en.wikipedia.org/wiki/Matter_(standard) if you are interested on IoT and Home Automation.

So why it does matter so much ?

With evolution of the Internet this reminds me of early days when companies battled between Token Ring vs Ethernet.

Subsequently Ethernet won the race because its simplicity and ease of deployment and cost.

Similar transformation is now on-going on IoT / Home space where companies are looking ways to retain their existing business without giving the access for consumers to leverage best available options in place.

The race is on-going https://www.iam-media.com/article/race-the-top-the-key-contenders-in-the-iot-sep-space

Latest patent filing trends indicate explosive growth on IoT space https://www.patsnap.com/resources/blog/2023-ip-trends/

Not just from the device HW perspective but also from the convergence of device to be governed from the cloud end interoperability perspective.

IoT will be used for any devices at home and in this context the Matter will be used as "glue" to reach interoperability between various manufacturers solutions/devices.

Solutions are plentiful on home front end but from end consumer perspective they all lack of interoperability and easy of usage with one single application ie. with any solution out there you need to have various ways (solution bridging) or options (apps) to manage your own ecosystem in place.

This is not good and eventually it will be the consumers whom will decide the devices which they will entertain on their home ends ie. therefore the devices which can accommodate the common home paradigm in place with easy of usage and seamless integration in place will win.

And this is just at home end, how about the need to control home from remote ends ?

This is where IoT meets the Cloud.

90% of IoT devices in marketplace are geared towards Action/Event based model where device "senses/gathers" some data and the propagates it for the end user acknowledgement / actions.

Now, in local home this works well with even the Mobile phone app but once user is steps outside of home (mobile) then comes the dilemma for the control of the home remotely.

With this the Matter spec comes to rescue since it provides the border gateway between home and cloud end to transfer device actions and end user acknowledgement thru cloud backend and for mobile device end; thus also enabling the end user to govern their own home via mobile entity by the cloud regression back to their home device spectrum.

On the cloud end what "matters" most is the architecture ie. is your backend flexible enough in terms of cost / agility ?

Many companies rely on their backend towards IoT type devices paradigm by using containers in place. This is a huge operational cost to manage and operate.

Instead by looking FaaS (Function as Service - serverless) SW functions model coupled with their IoT devices operational model many companies could cut their backend spending about 70%+ or more.

So any company working on IoT space needs to ask some simple questions: what is our business intent with Matter framework and how our product portfolio is aligned with Cloud governance things coupled within company IoT devices.

Finally all innovation in place on IoT sector will open up new frontiers in terms of AI,ML etc ends and therefore all companies needs to have closer look how their IPR portfolio can be leveraged as competitive advantage https://www.linkedin.com/pulse/gaining-competitive-edge-using-big-data-artificial-patents-tuominen/

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